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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/040,077
				Filing Date	January 4, 2002
				First Named Inventor	Terry J. Amiss et al.
				Art Unit	1651
				Examiner Name	Srivastava, Kailash C.
Sheet	1	of	3	Attorney Docket Number	P-5430

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optio.al). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet

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of

3

**Complete if Known**

Application Number	10/040,077
Filing Date	January 4, 2002
First Named Inventor	Terry J. Amiss et al.
Group Art Unit	1651
Examiner Name	Srivastava, Kailash C.
Attorney Docket Number	P-5430

<b>OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS</b>		
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		BAIRD et al., Current and Emerging Commercial Optical Biosensors, J. Mol. Recognit. 2001; 14:261-268
		BHATIA et al., Optical Fiber Long-Period Grating Sensors, Optics Letters, Vol. 21, No. 9, May 1, 1996
		GILARDI, et al., Engineering the Maltose Binding Protein for Reagentless Fluorescence Sensing, Anal. Chem., 1994, 66, 3840-3847
		JONES, et al., Bioremediation Monitoring Using Optical Fiber Long Period Grating (LPG)-Based Sensors, NFS Manufacturing Conference, Vancouver, January, 2000
		MARVIN, et al., Engineering Biosensors by Introducing Fluorescent Allosteric Signal Transducers: Construction of a Novel Glucose Sensor, J. Am. Chem. Soc. 1998, 120, pp. 7-11
		MARVIN et al., The Rational Design Of Allosteric Interactions In A Monomeric Protein And Its Applications To The Construction Of Biosensors, Proc. Natl. Acad. Sci. USA, Vol. 99, pp. 436-4371, April 1997 Biochemistry
		MOWBRAY, et al., Structure of the Periplasmic Glucose/Galactose Receptor of Salmonella Typhimurium, Receptor, 1990, I, pp. 41-54
		PISARCHICK et al., Binding of A Monoclonal Antibody and its Fab Fragment to Supported Phospholipid Monolayers Measured By Total Internal Reflection Fluorescence Microscopy, Biophys. J., Biophysical Society, Vol. 58, November 1990, pp. 1235-1249
		SALINS et al., Reagentless Optical Detection Of Glucose Using Genetically Engineered Galactose/Glucose Binding Protein, Abstracts of Papers of the American Chemical Society, 219: 162-BIOL, Part 1 Mar 26 2000
		SALINS et al., Reagentless Optical Detection Of Glucose Using Genetically Engineered Galactose/Glucose Binding Protein, Biochemistry 39 (6): 162 Feb 15, 2000
RECEIVED		TOLOSA, et al., Glucose Sensor for Low-Cost Lifetime-Based Sensing Using A Genetically Engineered Protein, Analytical Biochemistry 267, pp. 114-120 (1999)

Examiner Signature

Date Considered

5/22/03

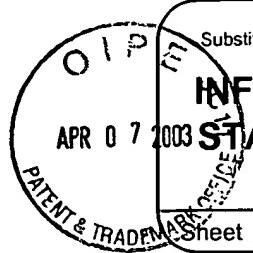
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MAS Sheet	3	of	3
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**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner  
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Alexander

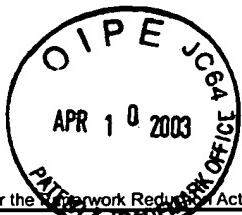
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PTO/SB/08A (04-03)

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Sheet 1 of 5

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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Claims Appear
		Number-Kind Code <sup>2</sup> ( <i>If known</i> )			
W		US- 4,703,756	11-03-1987	Gough et al.	RECEIVED APR 11 2003 TECH CENTER 1600/2000
		US- 5,001,054	03-19-1991	Wagner	
		US- 5,165,407	11-24-1992	Wilson et al.	
		US- 5,200,334	04-06-1993	Dunn et al.	
		US- 5,292,801	03-08-1994	Avnir et al.	
		US- 5,300,564	04-05-1994	Avnir et al.	
		US- 5,342,789	08-30-1994	Chick et al.	
		US- 5,445,920	08-29-1995	Saito	RECEIVED APR 21 2003 GROUP 1700
		US- 5,501,836	03-26-1996	Myerson	
		US- 5,517,313	05-14-1996	Colvin, Jr.	
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		US- 5,650,311	07-22-1997	Avnir et al.	
		US- 5,817,493	10-06-1998	Reetz et al.	
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		US- 5,910,661	06-08-1999	Colvin, Jr.	
		US- 6,016,689	01-25-2000	Bright et al.	
W		US- 6,080,402	06-27-2000	Reetz et al.	
		US- 6,197,534	03-06-2001	Lakowicz et al.	<i>duplicate</i>

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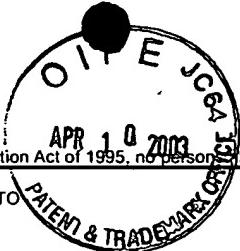
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Sheet 2 of 5

**Complete if Known**

Application Number	10/040,077
Filing Date	January 4, 2002
First Named Inventor	Terry J. Amos et al
Art Unit	1651
Examiner Name	Srivastava, Kailash
Attorney Docket Number	P-5430

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## U. S. PATENT DOCUMENTS

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## **Relevant Passages or Relevant Figures Appear**

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>d</i>		EP 0 775 669 B1	11-14-1996	Smith et al.		
		WO 00/59370	10-12-2000	Lowe et al.		
		EP 0 409 033 A2	07-09-1990	Schaffar	NO TRANSLATION OR CHARACTERIZATION	

**Examiner  
Signature**

Alexander

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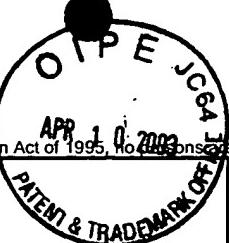
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5

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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
L		AVNIR, et al., Encapsulation of Organic Molecules and Enzymes In Sol-Gel Glasses, A Review of Novel Photoactive, Optical, Sensing, and Bioactive Materials, ACS Symposium Series 1992, 499, p. 384-404	
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		BAKER, et al., Effects of Poly (ethylene glycol) Doping on the Behavior of Pyrene, Rhodamine 6G, and Acrylodan-Labeled Bovine Serum Albumin Sequestered within Tetramethylorthosilane-Derived Sol-Gel-Process Composites, Journal of Sol-Gel Science and Tech. 11, p 43-54 (1998)	
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		FLORA, et al., The Effect Of Preparation and Aging Conditions On The Internal Environment Of Sol-Gel Derived Materials As Probed by 7-Azaindole and Pyranine Fluorescence, Can. J. Chem. 77 (1999) p. 1617-1625	
	RECEIVED	FLORA, et al., Effect of Matrix Aging on the Behavior of Human Serum Albumin Entrapped in a Tetraethyl Orthosilicate-Derived Glass, Chem. Mater. 13 (2001) p. 4170-4179	

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Sheet

4

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10/040,077

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January 4, 2002

First Named Inventor

Terry J. Amiss et al APR 11 2003

Art Unit

1651

Examiner Name

Srivastava, Kalpana TECH CENTER 1600/2900

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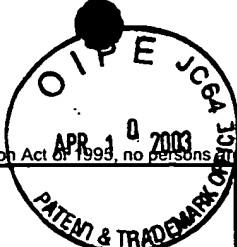
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W		FLORA, et al. Fluorometric Detection of Ca <sup>2+</sup> Based on an Induced Change in the Conformation of Sol-Gel Entrapped Parvalbumin, Anal. Chem. 70 (1998) p. 4504-4513	
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		NARANG, et al., Glucose Biosensor Based on a Sol-Gel-Derived Platform, Anal. Chem. 66 (1994) p. 3139-3144	
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		SHTELZER, et al., An Optical Biosensor Based Upon Glucose Oxidase Immobilized In Sol-Gel Silicate Matrix, Biotechnol. Appl. Biochem 19 (1994) p. 293-305	
		TSIONSKY, et al., Organically Modified Sol-Gel Sensors, Analytical Chemistry, Vol. 67, No. 1 (1995) p. 22-30	
V		ZHENG, et al., Improving the Performance of a Sol-Gel-Entrapped Metal-Binding Protein by Maximizing Protein Thermal Stability Before Entrapment, Chem. Mater. 10 (1998) p. 3974-3983	

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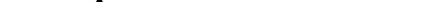
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1		ZHENG, et al., Measurement of Fluorescence from Typtophan To Probe The Environment and Reaction Kinetics Within Protein-Doped Sol-Gel-Derived Blass Monoliths, Anal. Chem. 69 (1997) p. 3940-3949	
2		ZHENG, et al., Measurement of Intrinsic Fluorescence To Probe The Conformational Flexibility and Thermodynamic Stability of a Single Tryptophan Protein Entrapped In A Sol-Gel Derived Blass Matrix, Analyst. Vol. 123 (1998) p. 1735-1744	
3		ZUSMAN, et al., Doped Sol-Gel Glasses As Chemical Sensors, Journal of Non-Crystalline Solids 122 (1990) p. 107-109	
		 <b>RECEIVED</b> APR 21 2003 <b>GROUP 1700</b>	

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